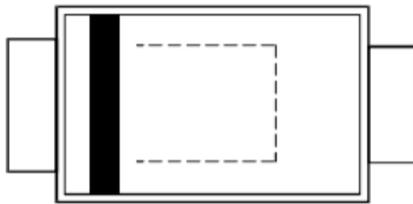


FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Electrical identical standard JEDEC.
- High conductor
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-123HE, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Apporx. Weight: 0.0006 ounces, 0.0184 grams
- Polarity: Color band denotes cathode end



SOD-123HE



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

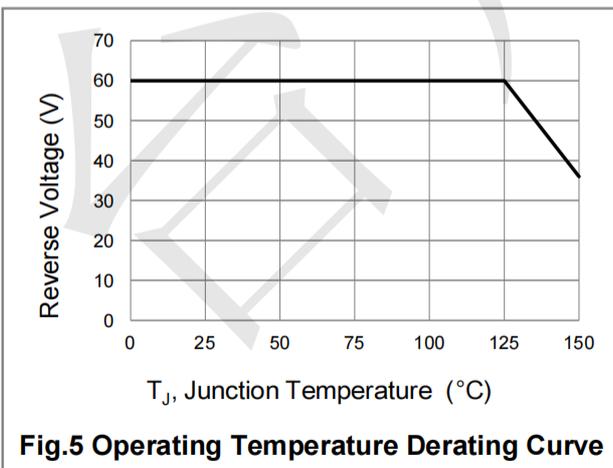
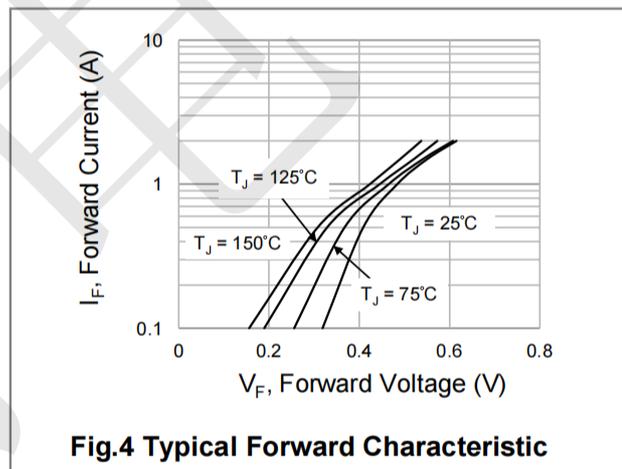
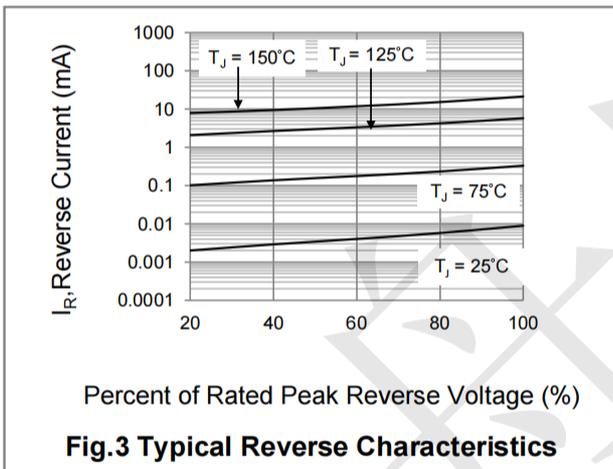
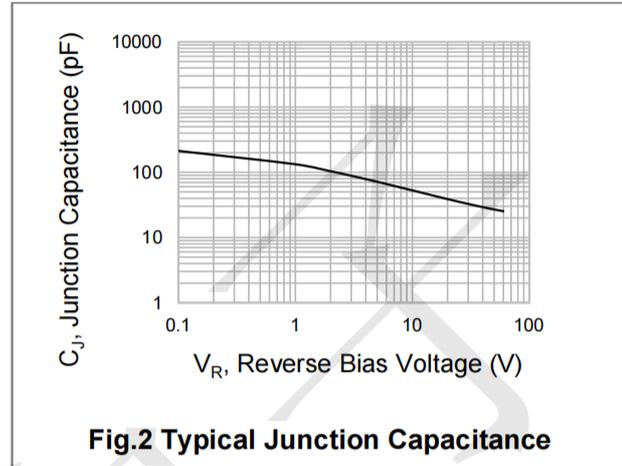
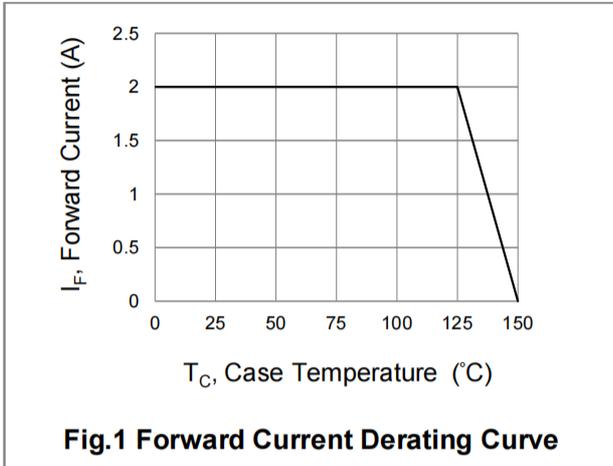
PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V _R	60	V
Peak Reverse Voltage	V _{RRM}	60	V
Average Rectified Current at Temp=75°C	I _O	2	A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50	A
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Case (Note 1)	R _{eJA} R _{eJC}	200 15	°C/W
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	Test Condition	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V _(BR)	I _R =1mA	60	--	--	V
Reverse Current	I _R	V _R =60 V	--	--	100	μA
Forward Voltage	V _F	I _F =1.0A I _F =2.0A	--	0.49 0.62	-- 0.67	V
Typical Junction Capacitance	C _J	V _R =0V, f=1.0MHz	--	230	--	pF

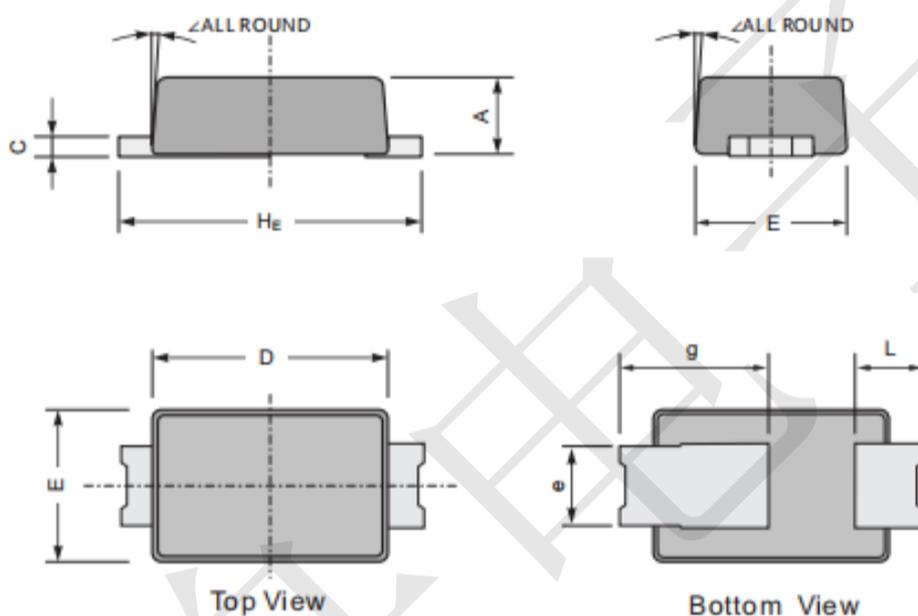
NOTES:

1.Mounted on 48cm² FR-4 PCB board.



PACKAGE OUTLINE

SOD-123HE



UNIT		A	C	D	E	e	g	L	H_e	\angle
mm	max	1.0	0.3	2.9	1.9	1.15	2.0	1.1	3.8	12°
	min	0.8	0.2	2.7	1.7	0.8	1.5	0.7	3.5	
mil	max	39	11.8	114	75	45	79	43	150	
	min	31	7.9	106	67	31	59	28	138	